

DERWENT-ACC-NO: 2000-434183**DERWENT-WEEK:** 200334*COPYRIGHT 2009 DERWENT INFORMATION LTD***TITLE:** Color liquid crystal display comprises microcapsule
containing dyestuff and liquid crystal material**INVENTOR:** HSU Y Y**PATENT-ASSIGNEE:** HSU Y Y[HSUYI]**PRIORITY-DATA:** 1998US-189114 (November 9, 1998)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE
JP 2000147479 A	May 26, 2000	JA
TW 500960 A	September 1, 2002	ZH

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2000147479A	N/A	1999JP-300484	October 22, 1999
TW 500960A	N/A	1999TW-118906	October 30, 1999

INT-CL-CURRENT:

TYPE	IPC DATE
CIPP	C09K19/60 20060101
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ABSTRACTED-PUB-NO: JP 2000147479 A

BASIC-ABSTRACT:

NOVELTY - The color liquid crystal display comprises microcapsule containing dyestuff and liquid crystal material.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (i) A composition for coating or printing comprises a binder, surfactant and aqueous base solvent. (ii) Method of printing or coating on a substrate includes screen printing, flexographic printings, offset printings, photo-lithography printing or inkjet printing. (iii) Apparatus comprising microencapsulated mixture of liquid crystal and dyestuff and color filter.

USE - For personal computers.

ADVANTAGE - The liquid crystal has high transparency, less expensive and high optical efficiency.

EQUIVALENT-ABSTRACTS:

POLYMERS

Preferred Microcapsule: The dyestuff and liquid crystal material are sealed in a thin wall of polyurethane, polyurea, malomine asterisk formaldehyde or urea asterisk formaldehyde.

INORGANIC CHEMISTRY

Preferred Liquid Crystal: A liquid crystal consist of nematic, smectic A, cholesteric ferroelectric materials or their mixture.

ORGANIC CHEMISTRY

Preferred Dyestuff: The microcapsule contains dyestuff containing dichroism and/or isotropy, or a pigment. The dyestuff preferably contains two dichroism dyestuff and 1 isotropic dyestuff which forms complementary black, which is sealed in capsule after boiling or dyestuff contains two dichroism dyestuff and 1 isotropic dyestuff encapsulated separately and mixed and forms complementary black, or the

dyestuff contains 1 dichroic dyestuff capsule and one isotropic dyestuff capsule or pigment dispersed in the binder. The isotropic dyestuff or the pigment is red, blue or green colored. Preferred Substance: The composition is printed in the form of mosaic, triad or stripe shape. The substrate for printing comprises glass, plastic, metal or wafer of silicone. The apparatus contains monolayer of color filter and liquid crystal display. The apparatus contains binder, adhesive and ITO coating substrate and has TFT, TFD and plasma element.

TITLE-TERMS: COLOUR LIQUID CRYSTAL DISPLAY COMPRISE
MICROCAPSULE CONTAIN DYE MATERIAL

DERWENT-CLASS: A85 L03 P81 U14

CPI-CODES: A12-L03B; L03-G05A;

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F78 R00123 277; G1809 G1649 D01 D23
D22 D31 D45 D50 D76 D83 F19 F10 F07
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P0226 D01; S9999 S1423 S1401; P0260;
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